

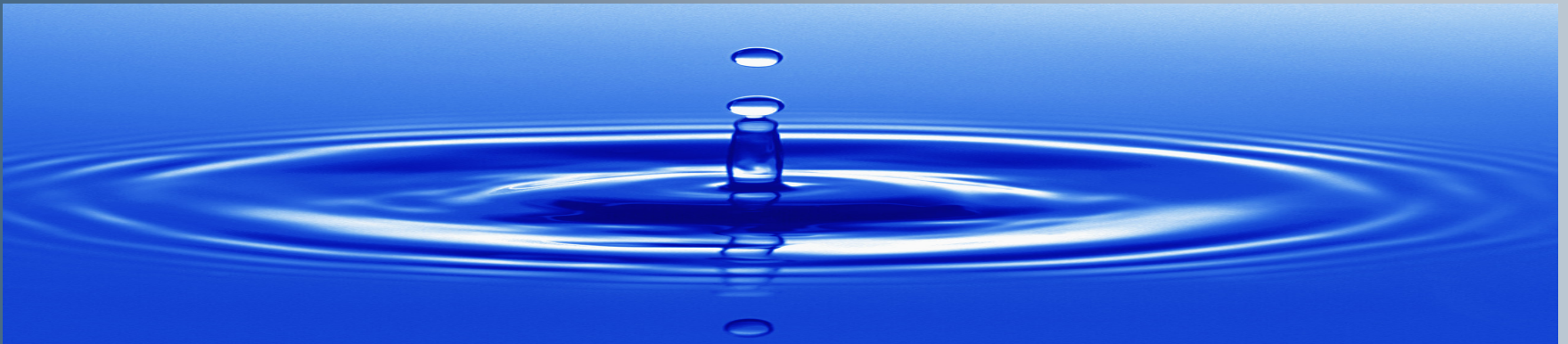
An Ounce of Prevention



DEQ Pollution Prevention Program
Environmental Science and Services Division

We've Helped ...

- 10,000 Businesses
- 250 Agribusinesses
- 200 State Parks and Local Recreational Areas
- 30 Universities and Community Colleges
- 50 student interns





Technical Assistance

“We expect that our annual savings on the items implemented would save \$6,000. Our ultimate savings exceed \$10,000 on one RETAP recommendation and \$2,000 per month on others . . . We highly recommend the RETAP program to any company.”

JP Brooks, Accu-Shape Die Cutting, Inc



RETAP Assessment Program

Have Conducted 1300 assessments
FY08 Data Indicates:

- \$18,200 Cost Savings (median)
- 85,700 kWh electricity reduction (med)
- 174,100 pounds waste reduction (ave)
Per RETAP Assessment
- Recommendations Generated :
 - 20.9 million pounds in waste elimination
 - 36.0 million kwh reduction in electricity
 - 33.5 million gallons reduction in water usage
 - 1.1 million ccf reduction in natural gas
 - \$6.1 million in cost savings



Financial Assistance

“This loan will help us replace 19 year old equipment that is out-dated and more costly to operate,” says Thomas Moleski, owner of Dixie Cleaners of Fenton. “We appreciate DEQ’s low interest loan program to help a small business like ours ‘green’ our operations.”



RETAP Student Internship Program

“We are grateful to the DEQ for this positive, proactive program offered to MI companies. The work conducted by our intern provided tremendous assistance to us in our efforts to minimize wastes generated, improve cost reductions and increase efficiency.”

Richard Brawn, Pratt & Whitney Autoair



Education Outreach



“I was extremely pleased with the level, quality, and customer service given by the DEQ staff! “ John Elsinga, Twp Mgr. Delhi Carter Township (Stormwater and Pollution Prevention Initiative (SWPPI training; Fall 2005)

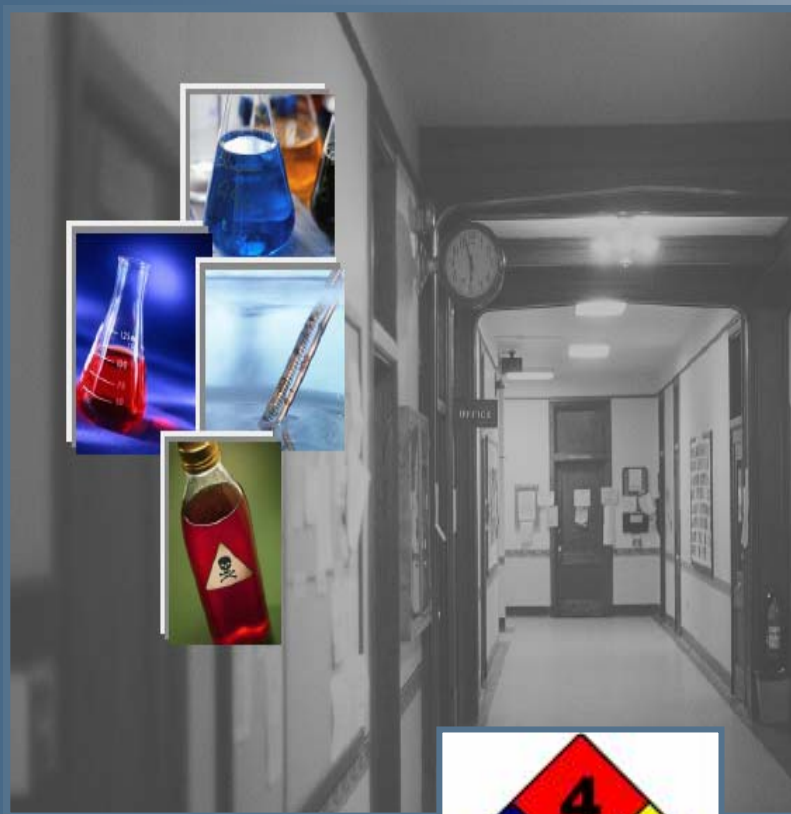


“Very knowledgeable instructor with a practical application of very confusing regulations.”

Community Assistance

The Community Pollution Prevention Grant Program awarded funding to 20 schools. This funding removed over 18,000 pound of toxic and excess chemicals from schools. Over 2,000 pounds of mercury were removed.

The schools are safer today and tomorrow due to, not only the disposal, but also due to minimizing the use of toxic chemicals through inventory control, purchasing, curriculum changes, and green cleaning initiatives.



Public Recognition

“We are pleased to receive this recognition as a Clean Corporate Citizen, and will continue to do our part to support environmental initiatives and maintain our pollution prevention programs at our facility.”

Brain A. Simon, President and
CEO of U.S. Manufacturing
Corporation





Compliance Assistance

"What the drycleaning industry appreciates most about the MDEQ is their hands-on approach to regulation and training. They hosted seminars on our industry's self audit, speak at our convention on emerging issues and are advisors and mentors to drycleaner owners who want assistance to stay in compliance and protect the environment. We are proud to partner with the MDEQ in their outreach efforts."

Donn Eurich

Michigan Institute for Launderers and Drycleaners



Recycling



- ❁ The Michigan Recycled Materials Market Directory
- ❁ Creating an effective electronic waste management program
- ❁ Providing household hazardous waste support and technical assistance
- ❁ Resources to support recycling efforts of Michigan businesses and communities.



P2 Loan Program

Annual Waste Prevented:

- 3,761 gal of perchloroethylene
- 1,466 gal of x-ray developing chemicals
- 27,900 x-ray films
- 18,000 feet of printer film
- 1,320 printer plates
- 2,180 lbs. plating make-up chemicals
- 180 tons of commercial fertilizer



Energy Conservation:

- 32,000 kW
- 6,575 gal of gasoline
- 93,000 gal of water conserved annually

11/6/2008

Green Suppliers Network

Energy Conservation

- 69,745 MM BTU's

Water Conservation

- 17,500,000 gal

CO2 Air Emission Reduction

- 2,200 lbs

Solid Waste Reduction

- 207,669 lbs

Waste Pollution Prevention

- 90,000 gal





Hospitals for a Healthy Environment (H2E)

- Mercury Reduction
- Waste Reduction
- Chemicals/P2 Resources
- Green Buildings
- Green Purchasing



Mercury Reductions

- 224,904 mercury-containing devices and recovered 19,101 pounds of liquid elemental mercury as a result of MDEQ Mercury Strategy and FY 2008 Clean Sweep collections.
- 81 thermometer exchange events have captured 24,654 mercury thermometers
- Mercury Phase-Out in Schools P.A. 376 of 2000
- Sales Ban of Mercury Thermometers P.A. 578 of 2002



Funding Sources and Authorization for Pollution Prevention Activities

Waste Reduction Fund - Authorized under Part 111 of Public Act 451, NREPA

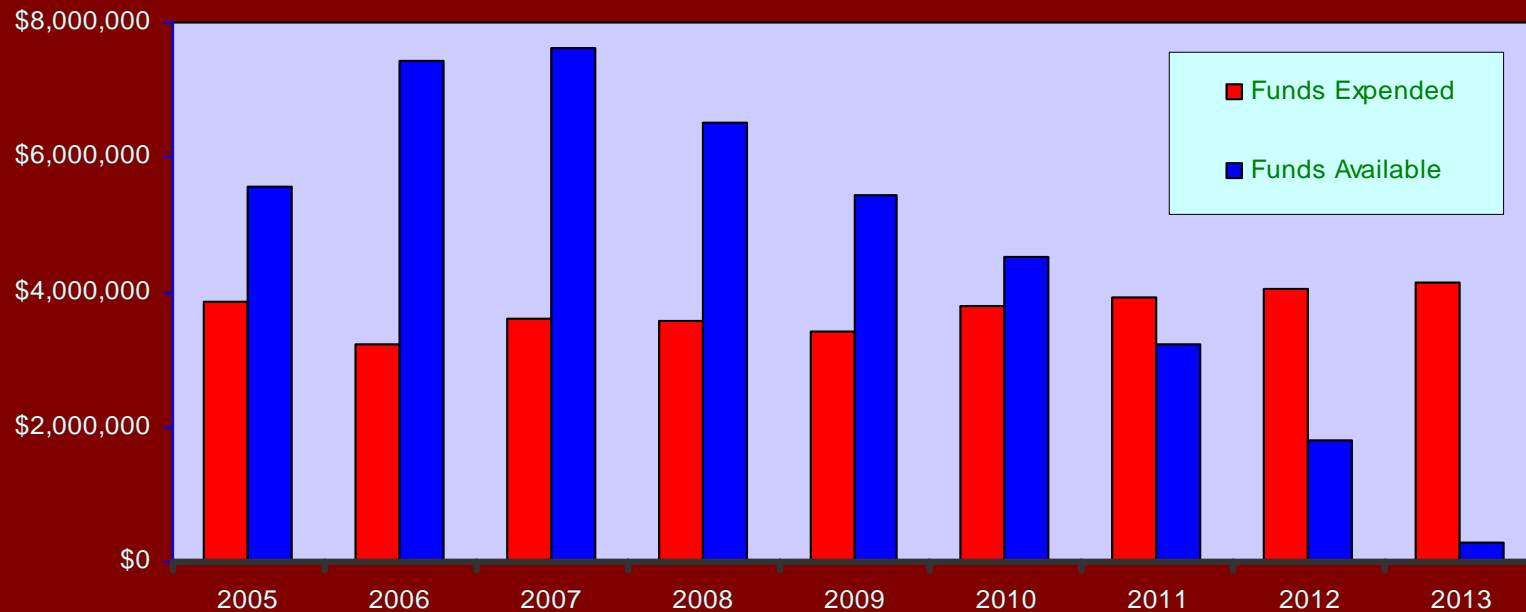
Pollution prevention programs – Authorized under Parts 143 and 145

Pollution prevention financial assistance under Part 145.

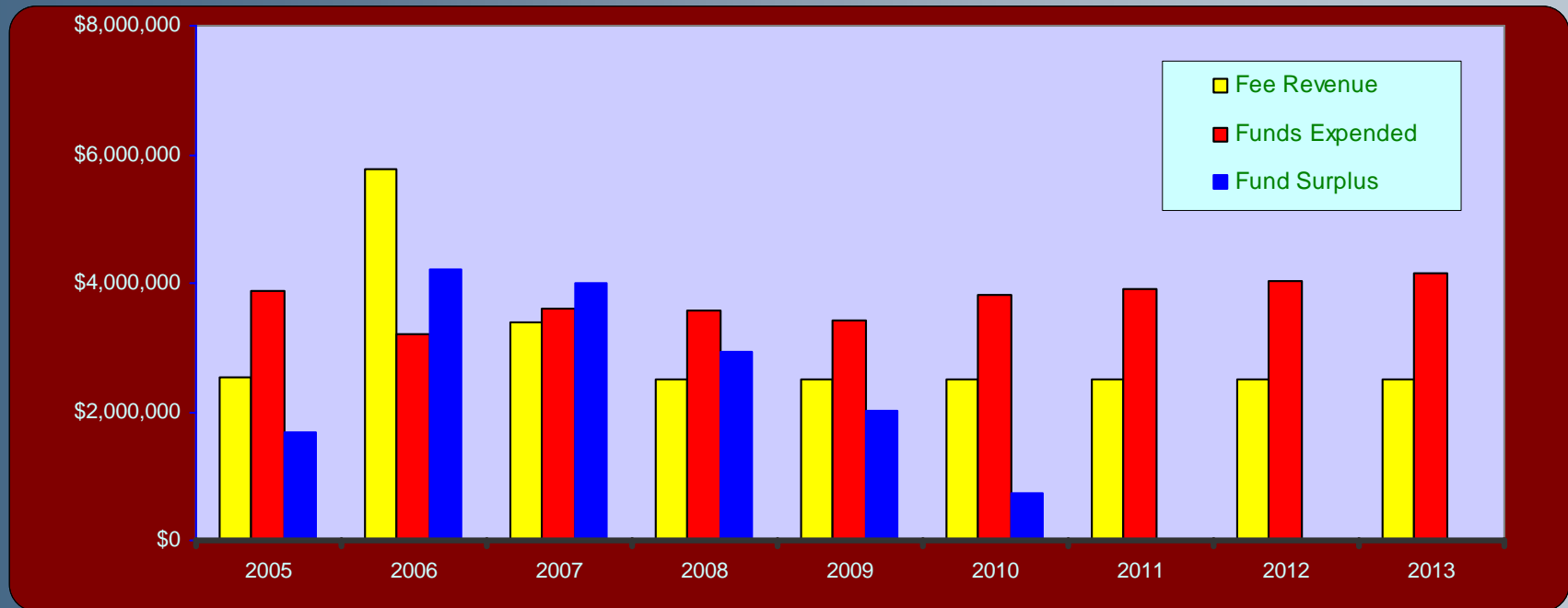
Waste Reduction Fund

	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13
						Projected	Projected	Projected	Projected
Surplus	3,021,504	1,685,292	4,227,907	3,999,016	2,935,016	2,028,416	722,416	(696,084)	(2,230,384)
Revenue	2,536,493	5,757,345	3,381,811	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000
Available to Expend	5,557,997	7,442,637	7,609,718	6,499,016	5,435,016	4,528,416	3,222,416	1,803,916	269,616
Total Fees Expended	3,872,705	3,214,730	3,610,702	3,564,000	3,406,600	3,806,000	3,918,500	4,034,300	4,153,700
Balance	1,685,292	4,227,907	3,999,016	2,935,016	2,028,416	722,416	(696,084)	(2,230,384)	(3,884,084)

Waste Reduction Fund Summary



Waste Reduction Fund Summary



Staffing

Funded by the Waste Reduction Fund

1999 Level – **55 positions**

2008 Level – **31 positions**

(Combination of attrition and funding shifts)

Impacted Areas

Pollution Prevention

Compliance Assistance and Outreach

Environmental Reporting

Division Financial and Administrative Support

Program Efficiencies

Program improvements and consolidation

Reorganized to reduce number of managers and support staff

Consolidated geographic districts covered by field staff

Leveraged technology

- electronic environmental reporting
- web based information, training and publications
- electronic compliance assistance

Closely monitored all program costs

Stronger Reliance on Traditional Regulatory Approaches

Increased regulations and command and control approaches over innovation and voluntary programs

Curtailed Compliance Assistance

Increased incidences of non-compliance leads to environmental degradation and human health impacts

Reduced P2 Assistance for Businesses, Schools, and Hospitals

Potential for increased business costs, waste generation and environmental impacts

Reduced Support for Recycling, Local Household Hazardous Waste Collections, and E-waste Collections

Resulting in increased landfilling and illegal dumping of these materials

Reduced Support for Energy Efficiency, Water Conservation, Hazardous Waste Reduction Projects

Increases in wastewater discharges, water usage, energy consumption and waste generation

Reduce Support for Voluntary Programs

Weaken relationships between government, industry and community with regard to environmental issues

Eliminate Grants for P2 and Energy Efficiency Projects

Resulting in a reduction of innovative projects and economic competitiveness

Eliminate Support for Supplier Chain Projects

Resulting in less cooperation between industry and their suppliers

Limit Recognition for Environmental Performance

Waste Reduction Fund

Propose - a 50% increase over the 1987 established rate to maintain current level of program services.

Increase to be effective -

\$1.25 million additional annual revenue
required to maintain existing level of
service

No additional funding sources will result
in a 44% decrease in expenditures

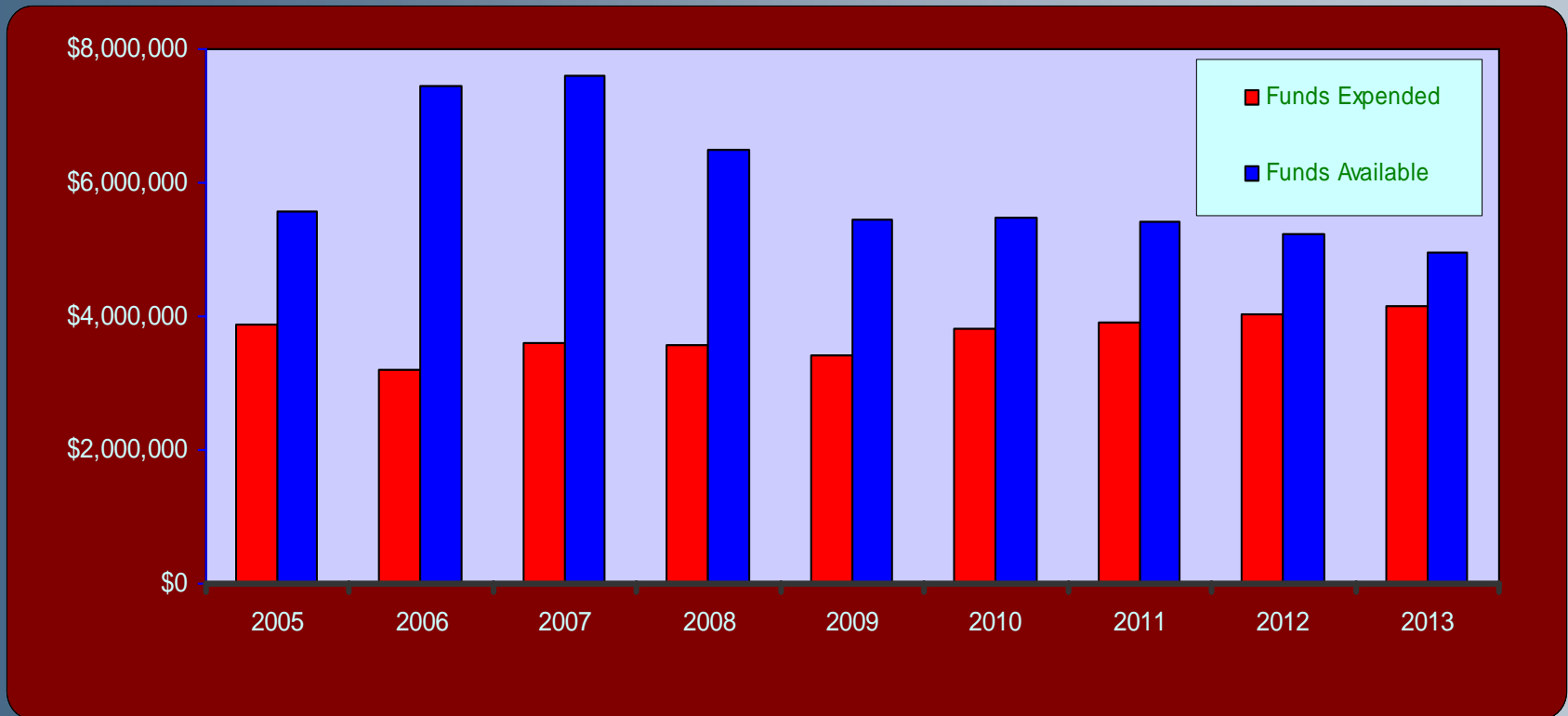
Waste Reduction Fund

50% Increase

	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13
				Projected	Projected	Projected	Projected	Projected	Projected
Surplus	3,021,504	1,685,292	4,227,907	3,999,016	2,935,016	2,028,416	1,659,916	1,491,416	1,207,116
Revenue	2,536,493	5,757,345	3,381,811	2,500,000	2,500,000	3,437,500	3,750,000	3,750,000	3,750,000
Available to Expend	5,557,997	7,442,637	7,609,718	6,499,016	5,435,016	5,465,916	5,409,916	5,241,416	4,957,116
Total Fees Expended	3,872,705	3,214,730	3,610,702	3,564,000	3,406,600	3,806,000	3,918,500	4,034,300	4,153,700
Balance	1,685,292	4,227,907	3,999,016	2,935,016	2,028,416	1,659,916	1,491,416	1,207,116	803,416

Waste Reduction Fund Summary

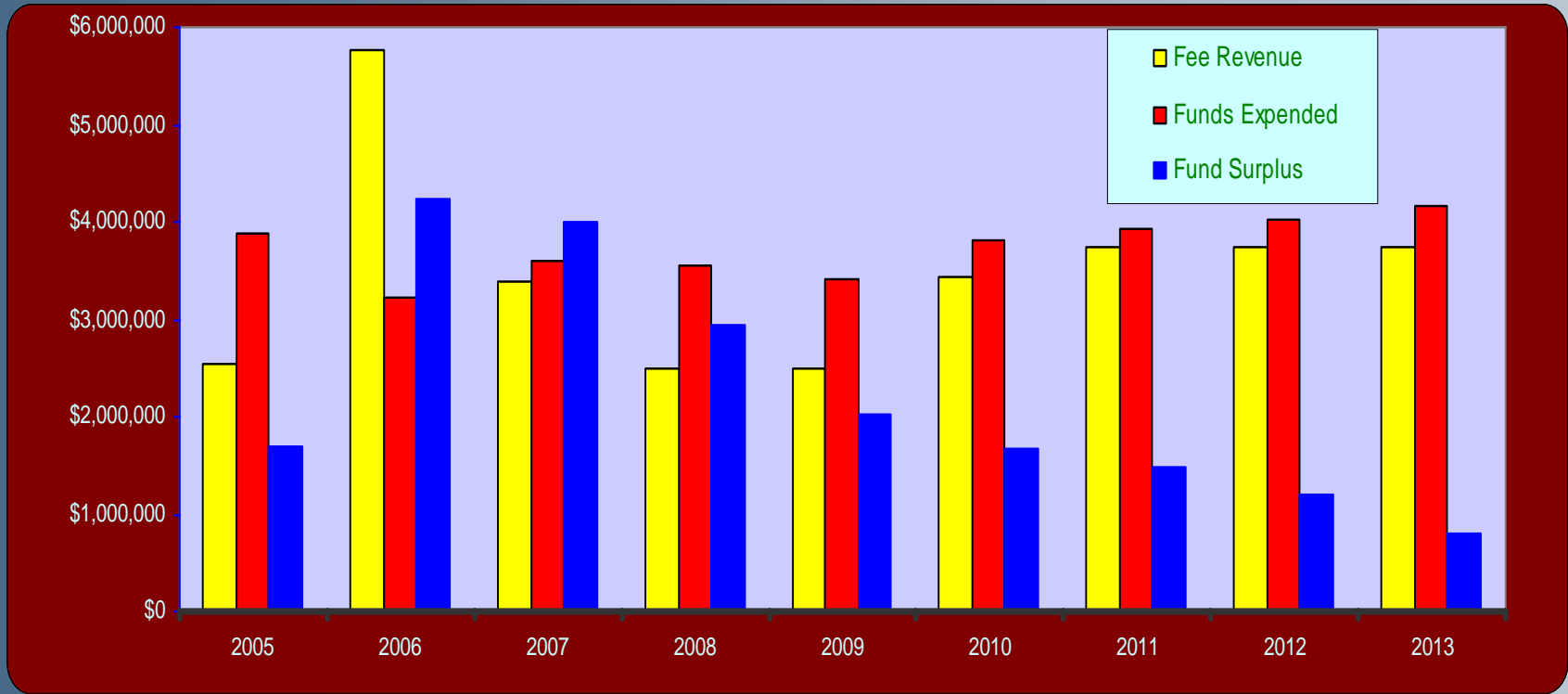
50% Increase



Projected Outlook

Waste Reduction Fund Summary

50% Increase



Projected Outlook